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CLAIMS

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2. 10 A protein having a molecular weight of about 24kD and capable of specifically binding to a protein of hepatitis C virus, or a functionally equivalent variant or fragment thereof.

A protein or a functionally equivalent variant or fragment thereof according to claim 1 which is functionally unglycosylated.

A protein or a functionally equivalent variant or fragment thereof according to claim 1 or 2 wherein the protein is a transmembrane protein.

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4. A process for the preparation of a protein or a functionally equivalent variant or fragment thereof according to any one of claims 1 to 3 comprising the step of culturing cells exhibiting binding to an HCV protein and purifying from a cell preparation a protein according to any one of claims 1 to 3.

A process according to claim 4 wherein the cell preparation is a plasma cell membrane preparation.

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- A process according to claim 4 or 5 wherein the cells are selected and cloned to provide hyperexpression of the protein according to any one of claims 1 to 3.
- A process according to any one of claims 4 to 6 wherein the cell preparation is subjected to an ammonium sulphate precipitation purification step employing ammonium sulphate at between 33 and 50%
- 35 8. A process according to any one of claims 4 to 7 wherein the purification involves at least on step of hydrophobic interaction chromatography.

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- 9. A process according to any one of claims 4 to 8 wherein the process involves at least one step of acetone precipitation
- 5 10. A process according to any one of claims 4 to 8 wherein comprising the steps of:
 - i) preparing a plasma cell membrane preparation of mammalian cells selected for hyperexpression of the 24kd protein of the invention,
 - ii) subjecting the preparation to ammonium sulphate precipitation at less than 33% saturation and retaining the supernagant,
 - iii) subjecting the supernament to ammonium sulphate precipitation at between 33 and 50% saturation and retaining the precipitate, and
- iv) resuspending the precipitate and subjecting it to hydrophobic interaction chromatography
- 11. A method for treating an infection of HCV comprising administering to a patient an amount of a protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof effective to reduce the infectivity of the virus.
- 12. A pharmaceutical composition comprising a protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof, optionally as a pharmaceutically acceptable salt, in combination with a pharmaceutically acceptable carrier.
 - 13. A process for preparing a pharmaceutical compositi n, in which a protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment

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thereof is brought into association with a pharmaceutically acceptable carrier.

- 14. A protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof for use as a pharmaceutical.
- 15. Use of a protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof in the manufacture of a medicament for the treatment of an HCV infection.
- 16. An assay for HCV antibodies in a serum sample comprising the step of allowing competitive binding between antibodies in the sample and a known amount of an HCV protein for binding to a protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof and measuring the amount of the known HCV protein bound
 - 17. A diagnostic kit comprising the protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof.
- A method for screening chemical compounds for ability to bind to the region of HCV responsible for binding to a host cell, comprising measuring the binding of a chemical compound to be screened to a protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof.
 - 19. A transgenic non-human mammal, carrying a transgene encoding a protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment thereof.
 - 20. A process for producing a transgenic animal comprising the step of introducing a DNA encoding a

protein according to any one of claims 1 to 3 or a functionally equivalent variant or fragment ther of into the embryo of a non-human mammal, preferably a mouse.

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